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SOURCE Vojvodjar i Poljoprivrednik, Vol VIII, No 3-4, 1951.WEATHER IN THE VOJVODINA FOR 1951

The Agrometeorological Center in Novi Sad has issued the following report on weather conditions in the Vojvodina in 1951, compiled from daily and monthly data issued by 28 meteorological stations in the Vojvodina:

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Meteorological Data for 1951 From Main Agrometeorological Station in Rimski Sancevi

Mo	Precipitation						Temp (deg C)								
	No of Days With Pre- cipitation (\geq mm)			Daily Max	Date	No of Days With Snowfall	Evaporation		Total Above 0 Deg C		Abs Extremes				
	0.1	5.0	Total				(mm)	Av	Total	0 Deg C	Max	Date	Min	Date	Diff
Jan	10	2	23.9	13.3	15	4	24.2	2,86	88.7	91.3	8.2	12	-2.6	22	10.8
Feb	9	5	90.8	27.5	20	2	53.6	4,58	128.2	134.2	16.7	13	-5.0	3	11.7
Mar	13	5	55.1	11.2	30	2	49.5	7,17	222.4	222.4	21.6	14	-2.9	3	24.5
Apr	14	5	54.1	9.9	5	--	57.1	11,55	346.7	346.7	24.7	30	-0.6	16	25.3
May	8	2	34.4	12.9	12	--	72.3	17,00	520.7	520.7	32.7	28	3.2	13	29.5
Jun	11	4	72.6	28.8	27	--	87.3	20,26	637.8	607.8	33.7	19	9.7	12	24.0
Jul	9	4	38.7	14.6	19	--	111.1	21,81	676.3	676.3	34.6	16	10.3	22	24.3
Aug	5	2	36.6	24.0	12	--	103.0	22,64	701.8	701.8	38.8	9	10.7	16	28.1
Sep	5	--	10.3	3.4	20	--	88.4	18.92	567.7	567.7	31.0	6	1.4	23	29.6
Oct	5	--	7.7	3.8	8	--	87.2	10,07	312.4	312.4	24.4	1	-1.6	17	26.0
Nov	5	1	29.4	23.0	24	--	50.5	8,30	249.0	243.0	24.6	11	-2.9	29	27.5
Dec	11	1	22.9	6.0	10	--	16.2	2,30	71.3	84.1	14.6	6	-6.9	21	21.5
1951	105	31	476.5	28.8	27 VI	8	800.4	12,29	4493.0	4509.2	38.8	9 VIII	-6.9	21 XII	45.7
Vegeta- tion per (Apr-Sep)	52	17	245.7	28.8	27 VI	--	519.2	18,69	3421.0	3421.0	38.8	9 VIII	-0.6	16 IV	39.4

There was a period of 171 days (17 April - 5 October) between the last spring frost and first autumn frost.

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Soil Temp				Rel Humidity		Solar Illumination (hr)	Solar Illumination (Direct or Diffused, cal g/sq cm)	Av Cloudi- ness	No of Days With Fog
Av Value In Depth (cm)				(%)					
5	10	20	30	Av	Av at 1400 hr				
2.5	2.8		3.8	82.1	74.4	72.1	3109	7.2	4
3.9	4.0		4.5	76.1	63.2	114.7	4733	6.7	1
6.8	7.2		7.1	78.1	66.1	119.2	6809	7.4	--
12.6	12.3	11.9	11.2	74.0	56.0	191.5	10025	7.6	--
20.9	20.0	18.8	15.5	71.8	53.1	212.0	13159	5.8	1
24.8	24.6	22.9	21.8	77.3	53.5	239.2	13438	5.0	--
26.5	25.7	24.2	23.2	68.8	53.4	275.3	14947	4.4	--
27.1	26.5	24.9	23.4	68.9	48.0	301.1	13050	3.8	1
21.8	21.5	21.2	20.8	71.6	53.2	244.8	9188	4.4	3
10.7	11.3	12.2	12.8	71.8	56.3	159.1	6428	5.1	--
7.7	8.3		9.3	81.6	66.5	107.3	3543	6.0	3
1.9	2.4		3.8	88.7	80.8	80.8	1820	6.3	10
13.9	13.7		13.1	75.9	60.4	2128.8	100249	5.8	23
22.9	21.8	20.6	19.3	72.1	52.9	1463.9	73807	5.2	5

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Winds

	Frequency									Av Strength Acc to Beaufort Scale	No of Days With Wind Velocity 6 (Beaufort)	Atm Pressure (mm)
	N	NE	E	SE	S	SW	W	NW	Calm			
6	4	11	33	8	2	10	11	8		2.4	2	753.1
5	3	4	37	18	3	2	10	2		2.6	3	752.5
12	2	6	26	11	8	10	14	4		2.0	2	750.4
11	7	6	4	8	1	13	20	20		1.5	--	754.8
10	9	11	8	5	13	10	8	19		1.2	3	751.4
16	11	4	17	3	3	7	7	22		1.2	1	753.7
19	2	5	6	7	--	4	29	21		1.5	--	754.4
7	4	-	14	10	2	9	17	32		0.8	--	853.3
8	16	7	18	5	2	1	13	20		1.1	--	755.2
2	20	23	34	3	--	1	1	9		1.8	--	758.7
3	1	8	18	23	3	14	11	9		1.7	--	753.0
6	7	9	9	3	--	8	20	31		1.1	--	758.6
105	86	94	224	104	37	39	161	197		1.6	11	753.8
71	49	33	67	38	21	44	94	134		1.2	4	754.8

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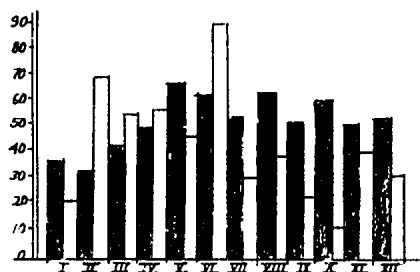
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The year 1951 can be considered a dry year, because the monthly average precipitation for the last 6 months of the year, and especially for October, was below the 15-year average, as shown in the following graph:

Precipitation Graph for the Vojvodina



Black columns represent 15-year average monthly precipitation (1923 - 1938). White columns represent average monthly precipitation in 1951.

Very little snow fell during the year.

Evaporation was not very great in 1951, being 189 millimeters less than in 1950. Evaporation was very rapid in the southern Banat because of dry and strong easterly winds. The same was true in Vrsac from April to September, when the total evaporation was 1,187.2 millimeters, or twice as much as the evaporation in Rimski Sancevi for the same period.

There was very little fog during the summer months. Storms caused heavy damage in Zemun, Alibunar, and Kula srezes.

Average monthly temperatures for 1951, with the exception of July and October, were one degree above normal. Maximum temperatures occurred during August and not in July, as is customary. The difference between minimum and maximum temperatures was about 45 degrees because of relatively high winter temperatures, in contrast with 1950, when the difference was approximately 60 degrees.

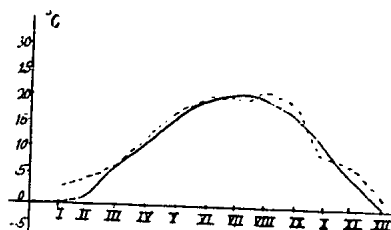
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Average Monthly Temperature in the Vojvodina



Heavy black line indicates average monthly temperature over a 30-year period. Dotted line indicates average monthly temperature in 1951.

Late spring and early autumn frosts were normal. Southeasterly winds were predominant.

The year 1951 was favorable for agriculture as a whole, despite the lack of precipitation. Two contributory factors to this were the abundant reserve of moisture (winter) and sufficient precipitation during the vegetation period, especially during the critical months of April, May, and June.

Warm and sunny weather during the second half of the vegetation period was favorable to maturing crops and agrotechnological measures [farm work] which had to be taken.

The basic crops of the Vojvodina, such as wheat, barley, oats, corn, sunflowers, sugar beets, forage beets, and fodder crops, yielded well. Potato and bean crops, however, did not come up to expectations. Tomato and pepper crops were somewhat lower than average because of lower-than-average temperatures during July. Early cabbage and other early vegetables yielded well. Fall cabbage had a lower yield, caused mostly by dry weather in September and October. The grape harvest was twice as great as average, although the quality of the grapes was poorer. In some areas, vineyards were affected by too much sunshine and by oidium. The fruit harvest was average. Apricot production was considerably retarded by the late spring frost, especially in Potisje. Cherry trees were affected with monilia.

The mulberry worm caused great damage to fruit trees during August and September.

Deep plowing and plowing for fall sowing were accomplished with great difficulty because of the prolonged drought and winter crop germination was greatly delayed because of insufficient humidity.

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